Appln. No. 10/648,896 Amendment

Docket No. 304-813

Response to Office Action dated December 3, 2004

AMENDMENTS TO THE CLAIMS

This listing will replace all prior versions, and listings, of claims in the application:

1. (Previously presented) A device for determining the temperature of a flowable medium, 1 wherein said medium flows through a duct with a cross-section, 2 said device having a temperature sensor and a probe body, 3 wherein said probe body has several elongated probe sections connected to a base member, 4 wherein said probe sections extend into said duct, 5 wherein said temperature sensor is arranged on said probe body in conductive thermal 6 contact therewith, and 7 wherein said temperature sensor is located on said base member and is outside said duct. 8 2. (Original) A device according to claim 1, wherein said probe sections extend through 1 said entire cross-section of said duct. 2 3. (Original) A device according to claim 1, wherein said probe sections are straight and ı parallel. 2 4. (Original) A device according to claim 3, wherein said probe sections are equidistant to 1 2 one another. 5. (Original) A device according to claim 1, wherein said probe sections are rod-like. 1 6. (Original) A device according to claim 1, wherein said probe sections are spaced from 1 one another with free gaps, said free gaps between two adjacent of said probe sections being 2 roughly of the order of magnitude of the extension of said probe sections at right angles to a flow 3 direction of said medium. 4 2 {WP218219;1}

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- 7. (Original) A device according to claim 1, wherein there is a flow cross-section for said 1 medium through said probe sections and said probe sections have an end face in said duct, wherein 2 said flow cross-section is roughly as large as the sum of said end faces of said probe sections in 3 said duct.
- 8. (Original) A device according to claim 1, wherein said probe sections extend in said 1 medium flow direction about the same as at right angles thereto. 2
- 9. (Original) A device according to claim 1, wherein on one side said probe body has a 1 base member from which said probe sections project and said base member only extends slightly 2 into said duct. 3
- 10. (Original) A device according to claim 1, wherein said probe sections are connected in 1 one piece with said base member. 2
- 11. (Original) A device according to claim 10, wherein said probe body of said base 1 member and said probe sections is entirely made in one piece. 2

12-13. (Cancelled)

- 14. (Original) A device according to claim 1, wherein said device is connected to a heater. 1
- 15. (Original) A device according to claim 14, wherein said heater has a heat transfer 1 member extending into said duct. 2
- 16. (Original) A device according to claim 14, wherein said medium has a flow direction 1 and said probe body is positioned downstream of said heater in said medium flow direction. 2

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- 17. (Original) A device according to claim 1, wherein said temperature sensor is 1 integrated into a hearing element. 2
- 18. (Currently amended) A device according to claim 17, wherein said heating element is I a thick film element. 2
- 19. (Previously presented) An arrangement of a duct with a cross-section for guiding a 1 flowable medium and a device for determining the temperature of said medium, 2
- wherein said medium flows through said duct, 3
- said device having a temperature sensor and a probe body, 4
- wherein said probe body has several elongated probe sections connected to a base member, 5
- wherein said probe sections extend into said duct, 6
- wherein said temperature sensor is arranged on said probe body in conductive thermal 7
- contact therewith, and 8
- wherein said temperature sensor is located on said base member and is outside said duct. 9
- 20. (Original) A device according to claim 19, wherein said device is connected to a 1 2 heater.
- 21. (Original) A device according to claim 20, wherein said heater has a heat transfer 1 member extending into said duct. 2